

ABSTRACT OF THE DISCLOSURE

The present invention provides an RACH receiving apparatus in which the components can be constructed in a small scale.

The RACH receiving apparatus performs a demodulation processing so as to divide it into two stages of a first demodulation processing for multiplying reception data of complex-modulated RACH by sign codes subjected to an arithmetic processing with long codes and phase rotations in a code register multiplying unit, and a second demodulation processing for adding multiplication results every chips and multiplying addition results by signature codes in a signature multiplying unit.